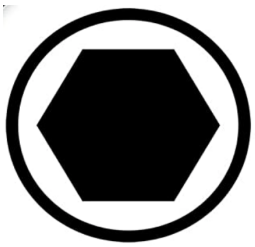
Manual for Control Button replacement

In this manual, we will show you how to replace a Control Button on the S5 and A5. This manual can be used for both Control Buttons on the S5 and A5. We used the left Control Button on an S5 for this manual

Required tools		Required parts
Phillips PH0 Screwdriver	Allen Key #5	Control Button (without screw)
		

Summary of the steps:

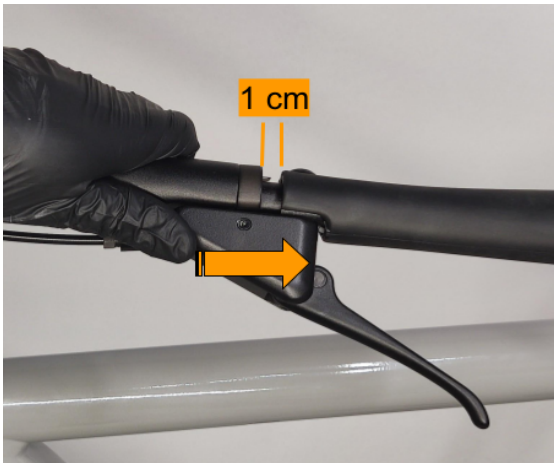
1. Preparing the bike
2. Loosening the brake lever assembly
3. Removing the brake lever assembly
4. Removing the grip
5. Disconnecting the Control Button connector
6. Removing the Control Button
7. Installing the new Control Button
8. Connecting the Control Button connector
9. Aligning the cables
10. Refitting the grip
11. Pushing the Control Button connector into the grip
12. Sliding on the grip
13. Checking the cables
14. Refitting the brake lever assembly
15. Securing grip and lever to the handlebars
16. Repair is done

1. Preparing the bike

	Before you start the repair, ensure the bike is turned off. And do not press any control buttons on the handlebars or Smartunit Main ECU during the procedure. You can leave the bike on the kickstand during this repair.

2. Loosening the brake lever assembly

Required tool for this step: Allen Key #5

Let's start with the use of an Allen key #5 to remove the screw that holds the brake lever and grip in place.	When the screw is fully removed, push on the lever, to slide the lever and grip 1 cm outwards.
	

3. Removing the brake lever assembly

Now you can slide the lever assembly off the grip, and carefully let it hang. Watch out that you do not hit the frame or front fork, to prevent any damage.	

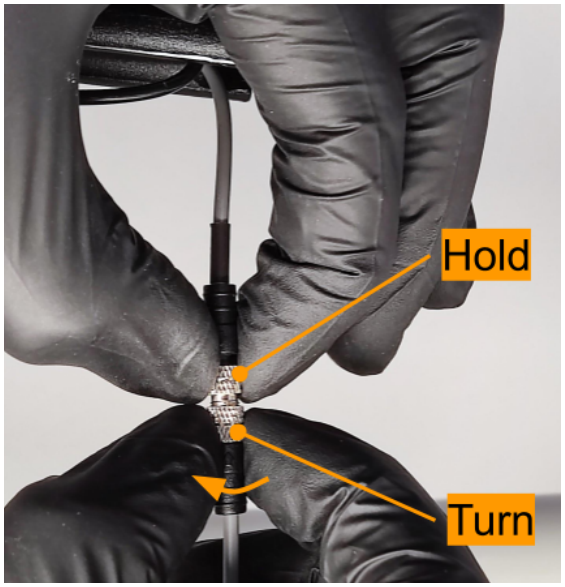
4. Removing the grip

Carefully slide off the grip. Gently wiggling might help slide it off. Do it in small steps, and do not apply force, to prevent it from jumping off and damaging the internal cables.

5. Disconnecting the Control Button connector

Make sure you hold the union nut of the connector coming from the handlebars steady and twist the union nut on the connector coming from the Control Button counterclockwise.

When the union nut is fully loose you can disconnect the connector by pulling them apart in a straight line.



6. Removing the Control Button

Required tool for this step: Screwdriver Phillips PH0

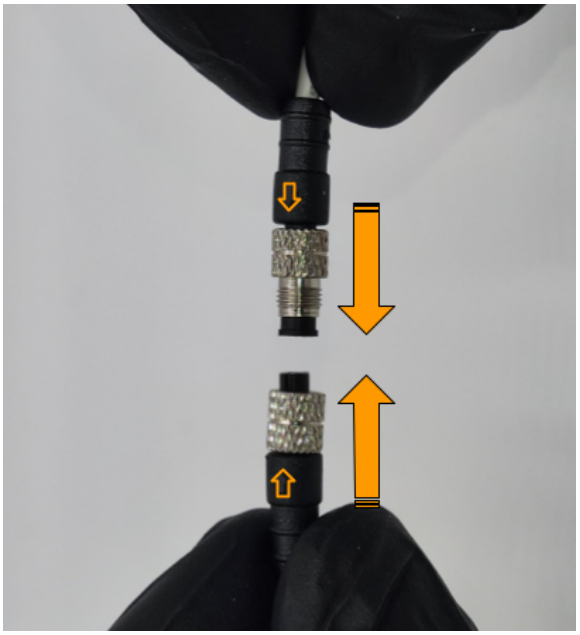
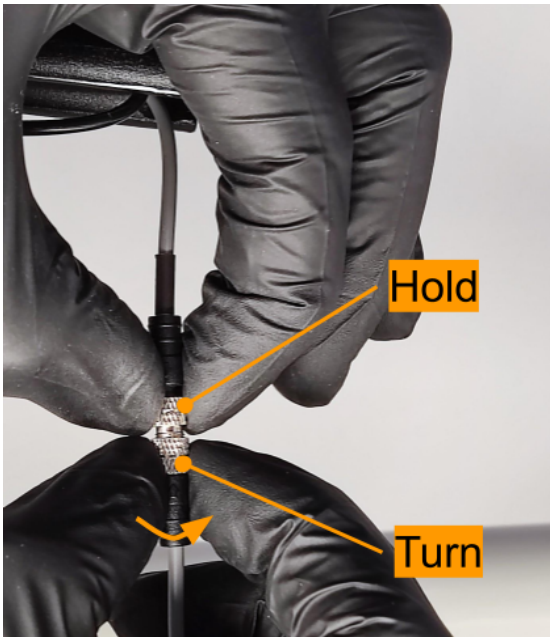
Now we can unscrew the screw of the Control Button with a Phillips PH0 screwdriver and remove it from the grip. Be careful not to lose the tiny screw, it is needed to mount the new Control Button.

7. Installing the new Control Button

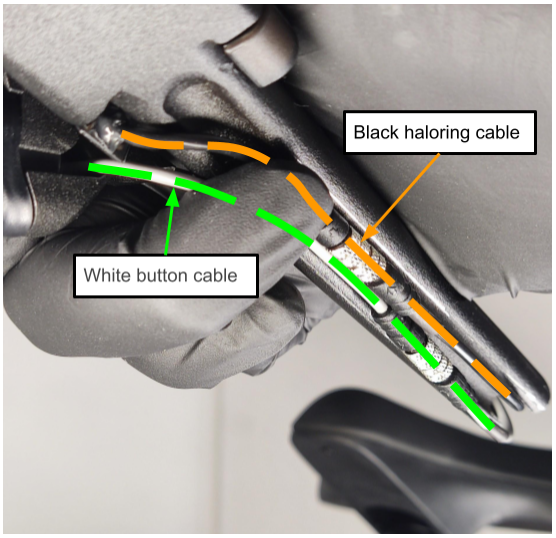
Required tool for this step: Screwdriver Phillips PH0

Slide the new Control Button into place and look for the cable to slide through the recess in the grip.	Now you can place back the screw with the Phillips PH0 screwdriver.

8. Connecting the Control Button connector

Next, look for the 2 black arrows on both ends of the connectors and align these. When they are aligned you can connect both in a straight line, do not twist the black parts of the connector.	Now push the 2 union nuts together and hold the side coming from the handlebars steady, while the union coming from the grip is screwed on until it is fully tightened.
	

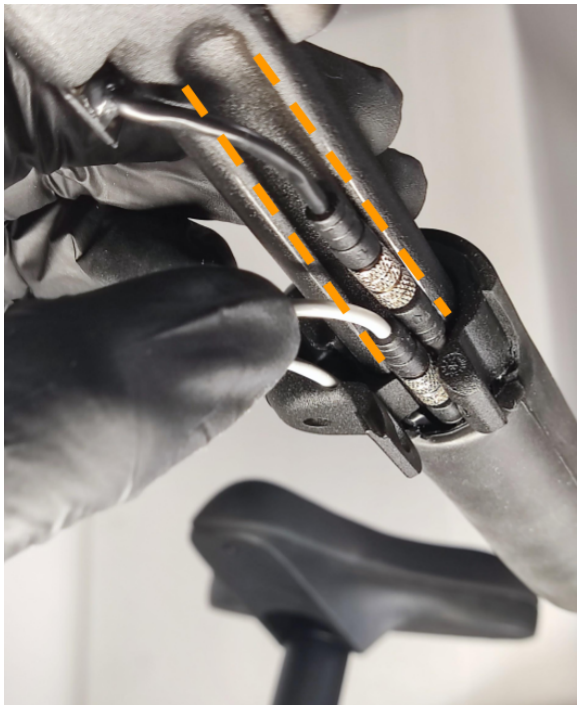
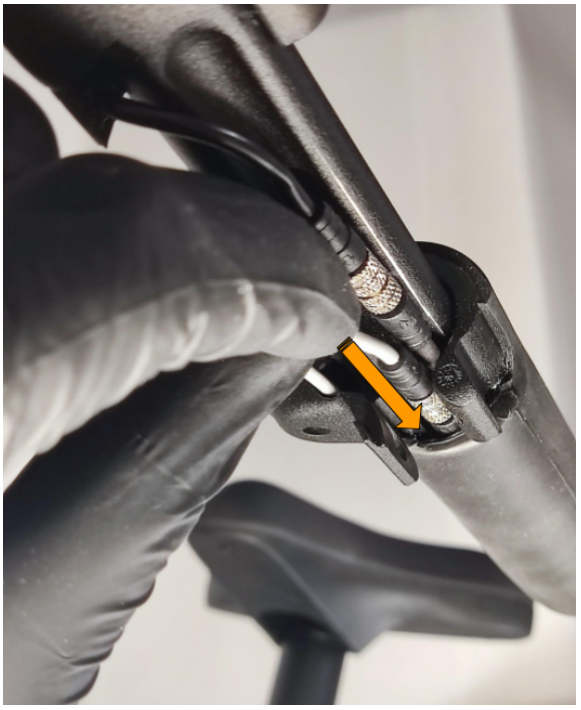
9. Aligning the cables

For the following steps it is important that the 2 wires underneath the handlebars are placed next to each other as shown below, with the Control Button cable on the inside and the Halo cable on the outside. Make sure the cables do not cross each other.	Check that both wires fall into the recess of the handlebars and hold both cables in place near the connectors.
	

10. Refitting the grip

While you hold with one hand the wires in place, start sliding the grip on the handlebars.	Stop sliding on the grip when it reaches the Control Button cable connector.

11. Pushing the Control Button connector into the grip

Check if the cables and connectors are positioned within the groove underneath the handlebars.	Push the Control Button cable connector now further into the grip.
	

12. Sliding on the grip

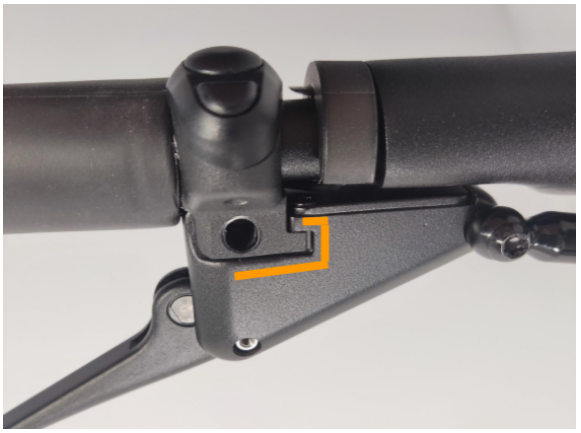
Push the Control Button connector all the way in, so it is behind the Halo cable connector and not visible anymore.	Now hold the Control Button cable in place and slide the grip further onto the handlebars. Make sure the cables stay within the groove

	While pushing the grip more and more into place, keep pushing in the cable into the grip. And also check if the halo cable slides into the grip. Sometimes it is needed to slide the grip a few centimeters back to get the cables in a better position and then try again with sliding on the grip. Stop pushing on the grip when you have roughly 1 cm left and check if the cables are now in the correct position (see next step)

13. Checking the cables

The cables should be as much in a straight line as possible, flat against the handlebars, and are not crossing each other.	The Control Button cable is not all the way in the grip and is not flat against the handlebars. The Control Button cable should be pushed in a bit more and make sure the cable is flat against the handlebars.

14. Refitting the brake lever assembly

Slide the brake lever back onto the grip	And check if it is all the way into position
	

15. Securing grip and lever to the handlebars
Required tool for this step: Allen Key #5

You can now slide the grip fully back in place.	And use an Allen Key #5 to tighten the screw.

16. Repair is done

You have now successfully refitted the Control Button. Great job. Now you can go for a test ride to see if all functions work.